## **AMENDMENT**

## In the Claims:

Please amend claims 30, 33, 38, and 39, as shown below.

## 1-18. (Cancelled)

- 19. (Withdrawn) A polypeptide, characterized by
- (a) derived from HCV polymerase NS5B having an HCV polymerase activity;
- (b) consisting of an amino acid sequence X-Y;

wherein X comprises a consecutive amino acid sequence which is a portion of the NS5B, an N-terminal amino acid of X is the amino acid residue 1 (Ser) of the NS5B, and a C-terminal amino acid of X is an amino acid residue selected from the group consisting of amino acid residues 531 (Lys) to 570 (Arg) of the NS5B;

wherein one or more amino acids in the amino acid sequence of X may be modified, and methionine residues in the amino acid sequence of X may be replaced by selenomethionine residues;

wherein Y comprises a carboxyl group or an amino acid sequence which is not derived from NS5B.

20. (Withdrawn) The polypeptide of claim 19, wherein the C-terminal amino acid residue of X is an amino acid residue selected from the group consisting of 536 (Leu) to 552 (Val) of the NS5B.

- 21. (**Withdrawn**) The polypeptide of claim 20, wherein the C-terminal amino acid residue of X is an amino acid residue selected from the group consisting of 536 (Leu) to 544 (Gln) of the NS5B.
- 22. (**Withdrawn**) The polypeptide of claim 20, wherein the C-terminal amino acid residue of X is an amino acid residue selected from the group consisting of 531 (Lys) to 544 (Gln) of the NS5B.
- 23. (**Withdrawn**) The polypeptide of claim 19, wherein methionine residues in the amino acid sequence of X are replaced by selenomethionine residues.
- 24. (**Withdrawn**) The polypeptide of claim 19, wherein Y is an amino acid sequence not derived from NS5B, and said amino acid sequence is suitable for column purification.
- 25. (**Withdrawn**) The polypeptide of claim 19, wherein the NS5B comprises an amino acid sequence of SEQ ID NO: 1.
- 26. (**Withdrawn**) The polypeptide of claim 19, wherein said polypeptide is identified by three-dimensional structural coordinates shown in a table selected from the group consisting of Table 2 and Table 3.
  - 27. (Withdrawn) A crystal comprising the polypeptide of claim 19.
  - 28. (Withdrawn) A DNA encoding the polypeptide of claim 19.
  - 29. (Withdrawn) A method for determining three-dimensional structural

coordinates of a variant of HCV polymerase NS5B by the molecular replacement method using a three-dimensional structure coordinate of said NS5B.

30. (Currently amended) A method for identifying a HCV polymerase inhibitor, said method comprising:

determining the complementarity of a test compound with an active site and/or RNA binding cleft of a polypeptide using a three-dimensional structural coordinate of said polypeptide or its part and a three-dimensional structural coordinate of said test compound,

wherein said polypeptide is derived from an NS5B HCV polymerase, has an NS5B HCV polymerase activity, and consists of an amino acid sequence X-Y, wherein X is a consecutive amino acid sequence which is a portion of NS5B, the N-terminal amino acid of X is a serine residue corresponding to amino acid residue 1 of NS5B, and the C-terminal amino acid residue of X is any one of selected from amino acid residues 531 (Lys) to, 536, 544, and 570 (Arg) of NS5B; and wherein Y is a carboxyl group or an amino acid sequence which is not derived from NS5B; and wherein one or more amino acids in X may be modified, and wherein methionine residues in the amino acid sequence of X may be replaced by selenomethionine residues,

wherein a test compound that is complementary to said active site and/or RNA binding cleft of said polypeptide is a inhibits a HCV polymerase inhibitor by binding to said active site and/or RNA binding cleft of said HCV polymerase.

- 31. **(Previously presented)** A method for identifying a HCV polymerase inhibitor, which method comprises the steps of:
  - (a) performing the method of claim 30; and
- (b) determining a HCV polymerase-inhibitory activity of said HCV polymerase inhibitor.
- 32. (**Withdrawn**) The method of claim 29, wherein the three-dimensional structural coordinate of the polypeptide is selected from the group consisting of dimensional structural coordinates shown in a table selected from the group consisting of Table 2 and Table 3.
- 33. **(Currently amended)** A method for identifying a HCV polymerase inhibitor, which method comprises the steps of:
- (a) obtaining a polypeptide which is derived from an NS5B HCV polymerase, has an NS5B HCV polymerase activity, and consists of the amino acid sequence X'-Y, wherein X' is a consecutive amino acid sequence which is a portion of the NS5B, the N-terminal amino acid of X' is a serine residue corresponding to amino acid residue 1 of NS5B, and the C-terminal amino acid residue of X' is any one of selected from amino acid residues 531 (Lys) to \_.536, and 544 (Gln) of NS5B; and wherein Y is a carboxyl group or another amino acid sequence which is not derived from NS5B; and wherein one or more amino acids in X' may be medified, and methionine residues in the amino acid sequence of X' may be replaced by selenomethionine residues;

- (b) determining the HCV polymerase activity of said polypeptide by reacting said polypeptide obtained in step (a) with a template RNA and substrates in the presence of a test compound;
- (c) determining the HCV polymerase activity of said polypeptide by reacting polypeptide obtained in step (a) with a template RNA and substrates in the absence of said test compound; and,
- (d) comparing the HCV polymerase activity determined in step (b) with the HCV polymerase activity determined in step (c).
- 34. (**Withdrawn**) An HCV polymerase inhibitor, identified by the method of claim 30.
- 35. (**Withdrawn**) An HCV polymerase inhibitor that inhibits the HCV polymerase activity of HCV polymerase NS5B by acting on a boundary between Thumb and Palm domains of NS5B.
- 36. (**Withdrawn**) The HCV polymerase inhibitor of claim 35, wherein said inhibitor is a compound represented by the formula, Z-Asp-Leu-Ser-Gly-Trp-Phe-Z', wherein Z is Leu or a hydrophilic group, and Z' is Val or a hydrophilic group.

## 37. (Canceled)

38. (Currently Amended) The method according to claim 31, wherein the C-terminal amino acid residue of X is selected from the group consisting of amino acid residues <del>531,</del> 536, 544 and 570 of NS5B.

39. (Currently Amended) The method according to claim 33, wherein the C-terminal amino acid residue of X' is selected from the group consisting of amino acid residues 531, 536, 536 and 544 of NS5B.